```
RRRRRRRRRRRR       UUU         UUU NNN         NNN   000000000    FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRRRRRRRRRRR       UUU         UUU NNN         NNN   000000000    FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRRRRRRRRRRR       UUU         UUU NNN         NNN   000000000    FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRR       RRR      UUU         UUU NNN         NNN 000       000  FFF               FFF
RRR       RRR      UUU         UUU NNN!        NNN 000       000  FFF               FFF
RRR       RRR      UUU         UUU NNN         NNN 000       000  FFF               FFF
RRR       RRR      UUU         UUU NNNNNN      NNN 000       000  FFF               FFF
RRR       RRR      UUU         UUU NNNNNN      NNN 000       000  FFF               FFF
RRR       RRR      UUU         UUU NNNNNN      NNN 000       000  FFF               FFF
RRRRRRRRRRRR       UUU         UUU NNN   NNN   NNN 000       000  FFFFFFFFFFF       FFFFFFFFFFF
RRRRRRRRRRRR       UUU         UUU NNN   NNN   NNN 000       000  FFFFFFFFFFF       FFFFFFFFFFF
RRRRRRRRRRRR       UUU         UUU NNN   NNN   NNN 000       000  FFFFFFFFFFF       FFFFFFFFFFF
RRR    RRR         UUU         UUU NNN      NNNNNN 000       000  FFF               FFF
RRR    RRR         UUU         UUU NNN      NNNNNN 000       000  FFF               FFF
RRR    RRR         UUU         UUU NNN      NNNNNN 000       000  FFF               FFF
RRR       RRR      UUU         UUU NNN         NNN 00C       000  FFF               FFF
RRR       RRR      UUU         UUU NNN         NNN 000       000  FFF               FFF
RRR       RRR      UUU         UUU NNN         NNN 000       000  FFF               FFF
RRR          RRR   UUUUUUUUUUUUUUU NNN         NNN   000000000    FFF               FFF
RRR          RRR   UUUUUUUUUUUUUUU NNN         NNH   000000000    FFF               FFF
RRR          RRR   UUUUUUUUUUUUUUU NNN         NNN   000000000    FFF               FFF
```

```
MM       MM    SSSSSSSS       GGGGGGGG
MM       MM    SSSSSSSS       GGGGGGGG
MMMM   MMMM    SS             GG
MMMM   MMMM    SS             GG
MM  MM  MM    SS             GG
MM  MM  MM    SS             GG
MM       MM       SSSSS      GG
MM       MM       SSSSSS     GG
MM       MM          SS   GG   GGGGG
MM       MM          SS   GG   GGGGGG
MM       MM          SS   GG      GG      ....
MM       MM          SS   GG      GG      ....
MM       MM    SSSSSSSS      GGGGGG       ....
MM       MM    SSSSSSS       GGGGGG       ....


RRRRRRRR    EEEEEEEEEE      QQQQQQ
RRRRRRRR    EEEEEEEEEE      QQQQQQ
RR     RR   EE             QQ      QQ
RR     RR   EE             QQ      QQ
RR     RR   EE             QQ      QQ
RR     RR   EE             QQ      QQ
RRRRRRRR    EEEEEEEE       QQ      QQ
RRRRRRRR    EEEEEEEE       QQ      QQ
RR  RR      EE             QQ  QQ  QQ
RR  RR      EE             QQ  QQ  QQ
RR    RR    EE             QQ    QQ
RR    RR    EE             QQ    QQ
RR      RR  EEEEEEEEEE      QQQQ  QQ
RR      RR  EEEEEEEEEE      QQQQ  QQ
```

MSG

%SB
    T
    c
    a
    u

MAC

%IF
%ELS
%IF
%ELS
%IF
%ELS
%IF
%ELS
%IF
%ELS
%IF
%ELS
%FI

    P
    a
    e
    o
    e
    p

MAC

%IF
%THE

%ELS

%FI

    T
    m

    F

    W

%IF

```
  Version:      'V04-000'

 *****************************************************************
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!++
! FACILITY:     DSR (Digital Standard RUNOFF) / DSRPLUS

! ABSTRACT:
!       Defines macros used by error-message processing.

! ENVIRONMENT:  Transportable BLISS

! AUTHOR:       Rich Friday

! CREATION DATE: 1978

! MODIFIED BY:

!       002     KAD00002        Keith Dawson     07-Mar-1983
!               Global edit of all modules. Updated module names, idents,
!               copyright dates. Changed require files to BLISS library.
!--

MACRO
    msg (l, s) =

        BEGIN
        EXTERNAL ROUTINE
            filout;
    %IF %LENGTH EQL 1
    %THEN
            filout (-1, %CHARCOUNT(l), CH$PTR(UPLIT(l)))
```

```
    %ELSE
            filout (-1, l, s)
    %FI
        END
    %;
MACRO
    ermsg (s)=
        CH$PTR ( UPLIT (%STRING(%CHAR(%CHARCOUNT (s)),s)) )
    %;
MACRO
    bell =
        %CHAR(%O'07')
    %,

    del =
        %CHAR(%O'177')
    %;

!                         End of MSG.REQ
```

K 9

```
!; A
!; e
!; <
!;
%IF


%IF
 AN
%FI

%TH

%FI


%FI


!;
!; T
!; t
!;
MAC

! E
```

CONVRT
REQ

FRMSTK
REQ

GETQSC
REQ

NDXCLI
REQ

NDXRTY
REQ

ECC
REQ

KWITEM
REQ

PHDEF
REQ

RUNTAB
REQ

FLIPRECS
REQ

FNCT
REQ

GNCC
REQ

IFSTK
REQ

LSTOPS
REQ

OUTOPT
REQ

DIGIT
REQ

FSPACK
REQ

NDXXPL
REQ

MAXIMA
REQ

POOL
REQ

RUNHAN
REQ

DMDEFS
REQ

FFDEFS
REQ

GSLUCC
REQ

INDEX
REQ

NDXLIN
REQ

PAGEN
REQ

LETTER
REQ

NMLST
REQ

FOOFIL
REQ

GCA
REQ

MSG
REQ

RNODEF
REQ

DSRLIB
REQ

FLGT
REQ

HCT
REQ

IRAC
REQ

NDXPOL
REQ

PASS
REQ

LODEFS
REQ

NUMPRM
REQ

FOOREC
REQ

MSGTXT
REQ

NBITS
REQ

KC
REQ

PDT
REQ

RNOMAC
REQ

FLIRCHARS
REQ

HLC
REQ

LSTBTS
REQ

OPDEV
REQ